

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

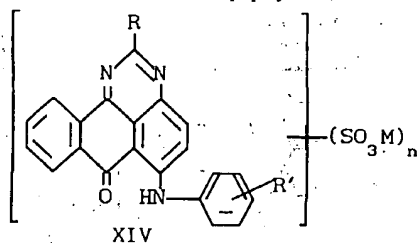
IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

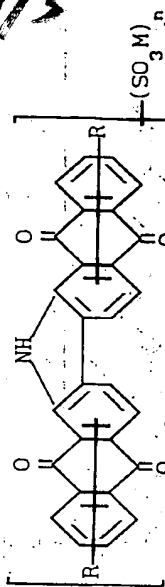
1207/3

Sept 16/99
r. 20.08

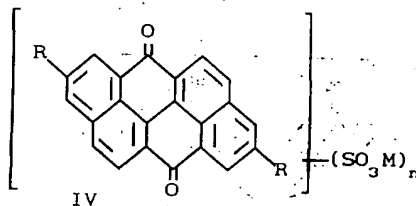
R, M, n - как в формуле I;



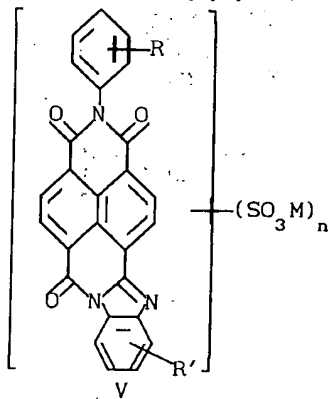
X - H, Br, SO₃M;
R - H, Ar;
R' - H, Hal, Alk, OAlk, NHPh, OPh;
M - катион, n = 2-4.



R = H, NHCOPh;



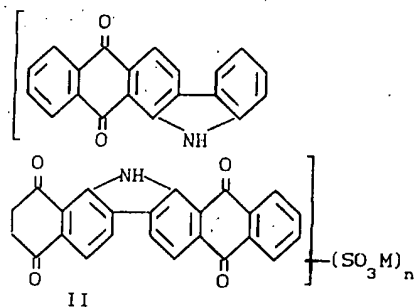
R, M, n - как в формуле I;



R, R' = H, Hal, Alk, OAlk, ArNH, OPh;

M - катион, n = 2-4;

M - катион, n = 2-4;



M - катион, n = 2-4;

(21) 95117403/04

(22) 06.10.95

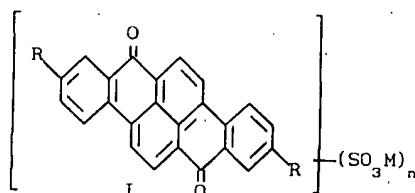
(51) 6 G 02 B 5/30, C 09 B 1/34, 1/48, 3/14, 3/50, 5/28, 5/48, 29/01, 33/02, 57/12

(72) Хан И.Г., Бобров Ю.А., Игнатов Л.Я.

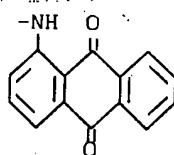
(71) Хан Ир Гвон

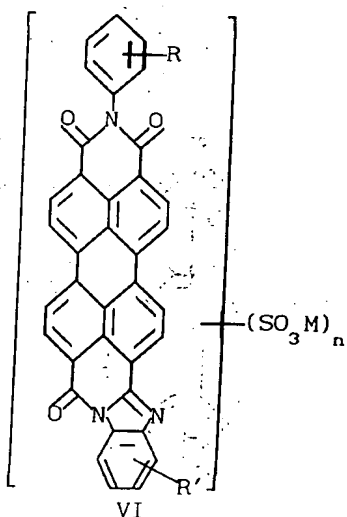
(54) МАТЕРИАЛ ДЛЯ ДИХРОИЧНЫХ ПОЛЯРИЗАТОРОВ СВЕТА

(57) 1. Материал для дихроичных поляризаторов света (ДПС), включающий в качестве пленкообразующей компоненты органический краситель, способный к образованию жидкокристаллической фазы, антиоксидант, и/или ингибитор, и/или поверхностно-активное вещество, растворитель, отличающееся тем, что в качестве пленкообразующей компоненты содержит органический краситель формулы (I-XXXIV) или их смесь:

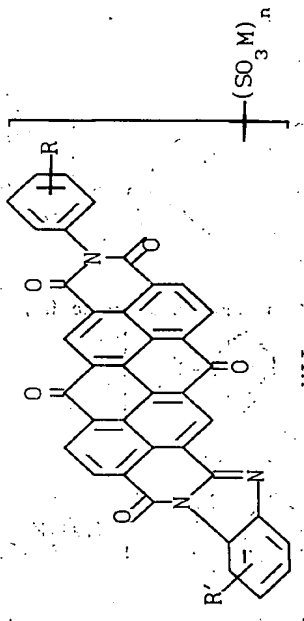


R = H, Br, NHAr, -NH

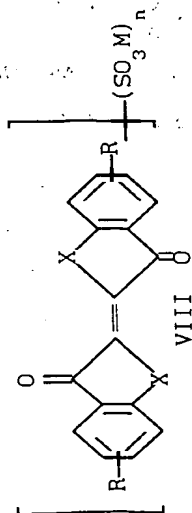




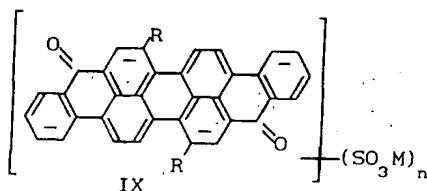
R, R', M, n - как в формуле V;



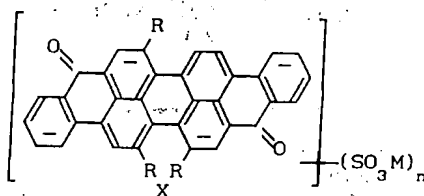
R, R', M, n - как в формуле V;



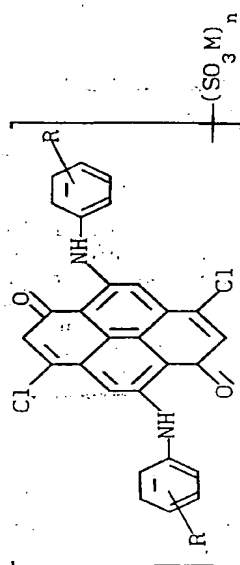
X = NH, S;
R = Hal, Alk;
M - катион, n = 1-3



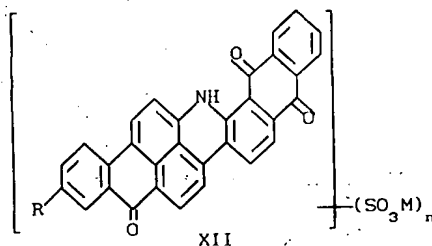
R = H, OH, OCH₃;
M - катион, n = 2-4



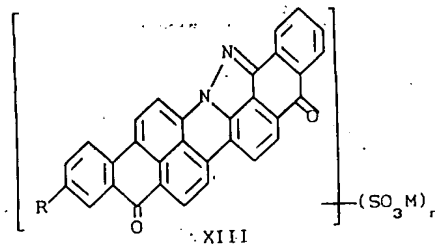
R, M, n - как в формуле IX



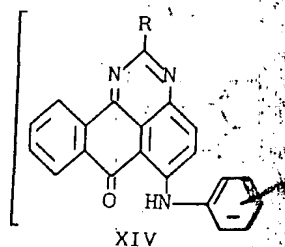
R, M, n - как в формуле V



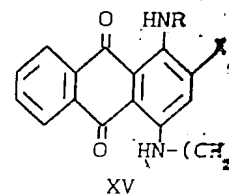
R, M, n - как в формуле I;



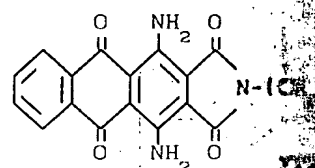
R, M, n - как в формуле V



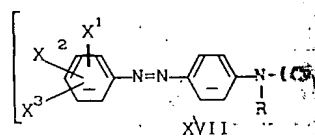
X = H, Br, SO₃M;
R = H, Ar;
R' = H, Hal, Alk, OAlk;
M - катион, n = 2-4;



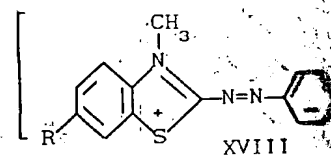
X = H, Br;
R = H, Alk, Ar; R' = H, Alk, Ar;
A' = Hal, CH₃SO₃, CH₃;
n = 2-3;



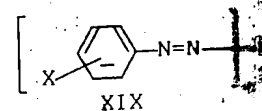
R', R'', A', n - как в формуле V



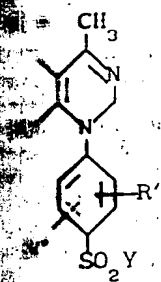
R', R'', A' - как в формуле V;
R = CH₃, C₂H₅;
R'' = C₂H₅, C₂H₄OH;
X¹, X², X³ = H, Cl, NO₂, SO₃M;



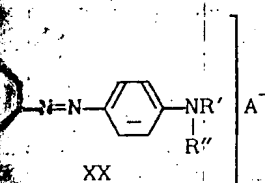
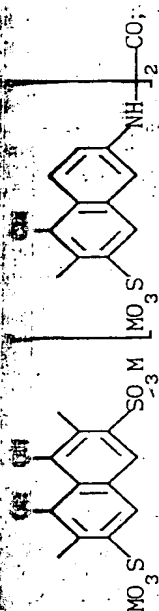
R = H, CH₃O;
R' = CH₃, C₂H₅, Ar;
R'' = C₂H₅, C₂H₄OH;
A' - как в формуле XV;



X = COOM, PO(OM)₂;



М. Hal;
GM.

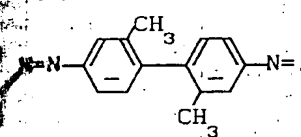


XX

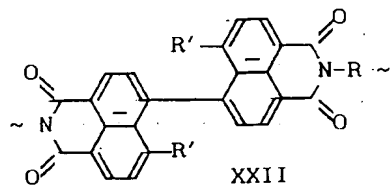
C_2H_5 ; $n = 0-1$;

Am;
Ar.

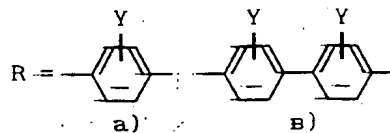
формуле XV;



XXI

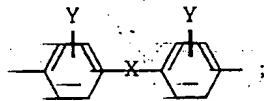


XXII



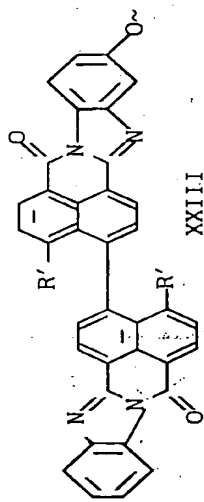
a)

b)



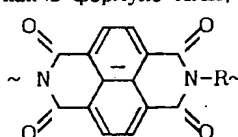
c)

X - O, CH₂, NH, CONH, CH-CH;
Y - H, CH₃, CH₃O, COOM, SO₃M;
R' - H, NO₂, COOM, SO₃M;
M - катион;



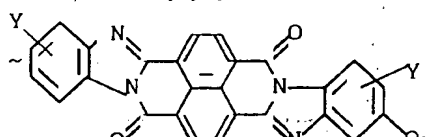
XXIII

R' - как в формуле XXII;



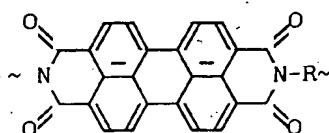
XXIV

R - как в формуле XXII;

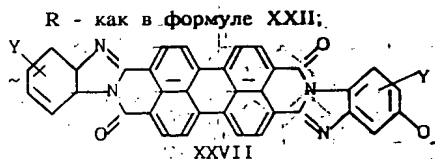


XXV

Y - H, SO₃M;
M - катион;

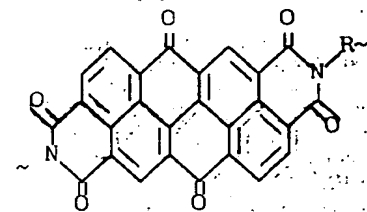


XXVI



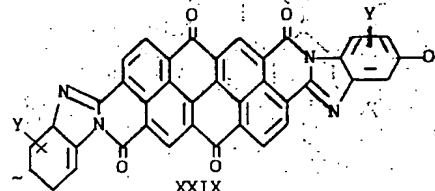
XXVII

Y - как в формуле XXV;



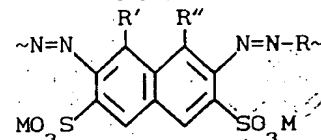
XXVIII

R - как в формуле XXII;



XXIX

Y - как в формуле XXV;

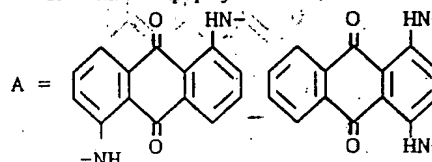


XXX

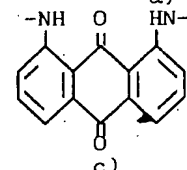
R, M - как в формуле XXII;
R', R'' - OH, NH₂;

~A=R~
XXXI

R - как в формуле XXII;

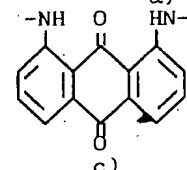


A =

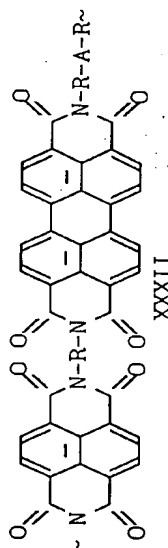
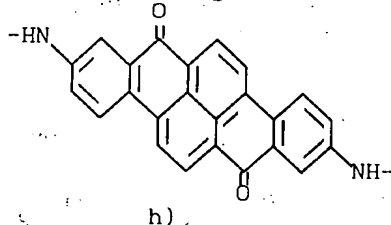
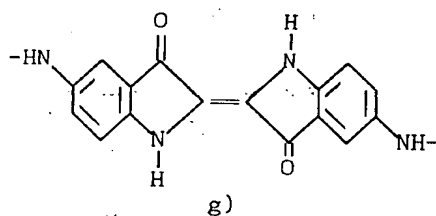
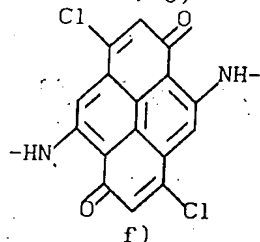
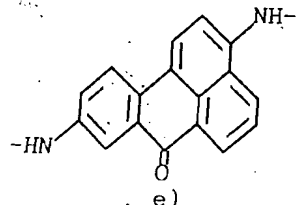
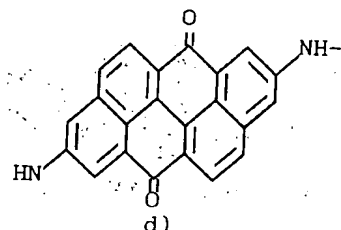


a)

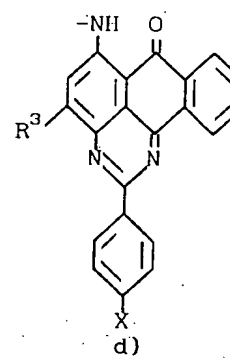
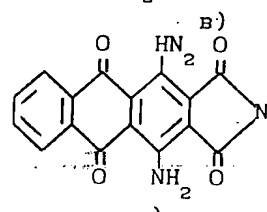
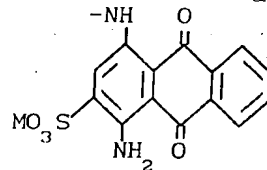
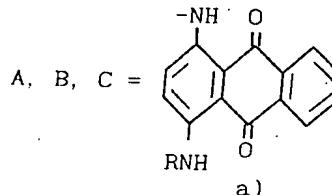
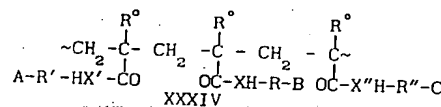
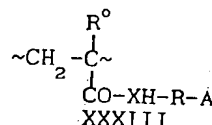
b)



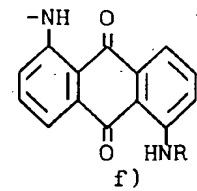
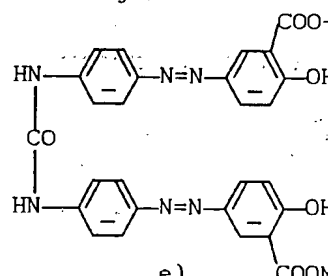
c)



R - как в формуле XXII, A - как в формуле XXXI



R³ - H, Br, SO₃;
X - H, SO₃M;



M - катион
R⁰ = H, CH₃; X, X'
R, R', R'' - как в формуле XXXIII, также (CH₂)_n, n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

2. Материал по п. 1. с тем, что в качестве добавки используют низкомолекулярные органические соединения, содержащие группы OH, CO, CONH₂, CHO.
3. Материал по п. 1. с тем, что в качестве добавки используют кремниевые соединения.
4. Материал по п. 1. с тем, что в качестве добавки используют жидкие полимеры.

(21) 95122279/28
(22) 18.09.95
(51) 6 G 02 B 6/36
(31) 019075 (32) 18.02.95
(86) PCT/US 94/00572 (18.02.95)
(72) Кубусиян Нуран Х.(US), Гордон Д.(US), Лин Николай Стендер Марк Т.(US)
(71) Миннесота Майнинг и Фекчуриг Компани (US)
(74) Безрукова О.М.
(54) НЕСЪЕМНАЯ МОДУЛЬНАЯ ЛОКОННО-ОПТИЧЕСКАЯ СИСТЕМА
(57) 1. Сборочный узел волоконного соединителя, содержащий корпус соединителя с первыми и вторыми концами, предназначенный для соединения нескольких оболочек оптического волокна, наконечник, устройство фиксации, имеющее первый и второй концы, при этом первый конец наконечника предназначен для установки наконечника на первом конце соединителя, а второй конец выполнен с возможностью размещения в первом конце соединителя и снабжен средством перемещения устройства фиксации относительно корпуса соединителя, средством смещения устройства фиксации относительно наконечника к первому концу корпуса соединителя, средством обжима для соединения усиливающих элементов волоконного кабеля на втором конце соединителя.
2. Сборочный узел волоконного соединителя по п. 1, отличающийся тем, что вторые концы устройств фиксации и корпуса соединителя расположены приблизительно в одной плоскости.

(21) 95117403/04

(51) 6 G 02 B 5/30, C 09 B 1/34, 1/48, 3/14, 3/50, 5/28,
5/48, 29/01, 33/02, 57/12

(72) Khan I.G., Bobrov Yu.A., and Ignatov L.Ya.

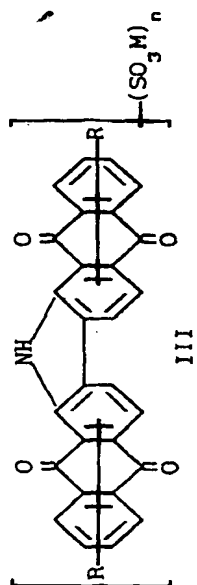
(54) MATERIAL FOR DICHROIC LIGHT POLARIZERS

The chemical structure shows a polycyclic aromatic system, specifically a fluorene derivative, enclosed in large square brackets. The fluorene core consists of a central benzene ring fused to two five-membered rings, which are in turn fused to two outer benzene rings. There are two carbonyl groups (C=O) at the 9 and 10 positions of the fluorene system. Two 'R' groups are attached to the outer benzene rings at the 2 and 7 positions. To the right of the closing bracket, there is a sulfonate group represented as $(SO_3^M)_n$, indicating a polymer repeat unit.

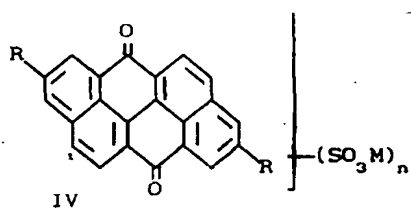
O=C1C(=O)c2ccccc2C(=O)c3ccccc13

II

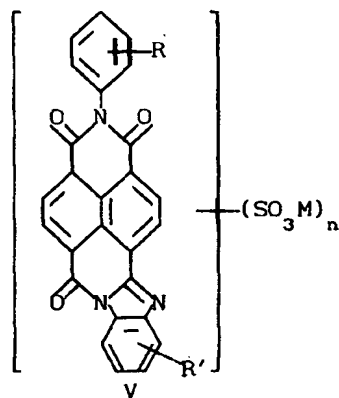
M is a cation, $n = 2-4$;



$R = H, \text{NHCOPh};$

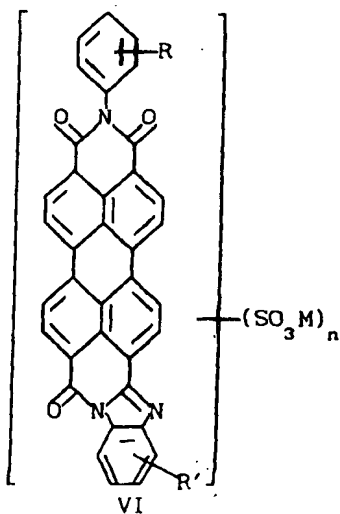


R, M, n are as in formula I;

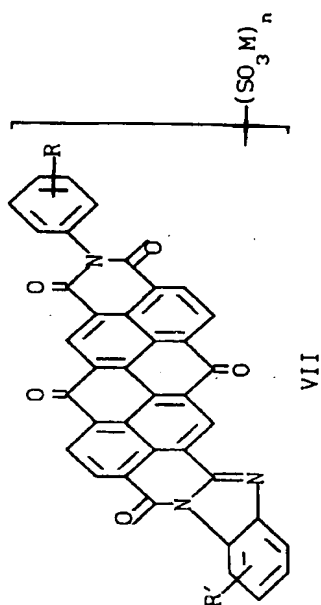


$R, R' = H, \text{Hal}, \text{Alk}, \text{OAlk}, \text{ArNH}, \text{OPh};$

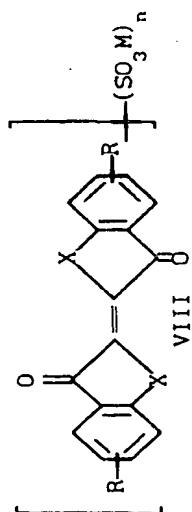
M is a cation, $n = 2-4;$



R, R', M, n are as in formula V;



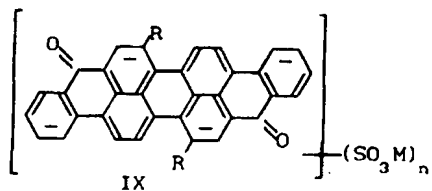
R, R', M, n are as in formula V;



X = NH, S;

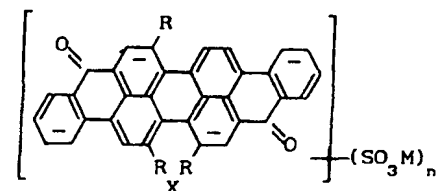
R = H, Alk;

M is a cation, n = 1-3;

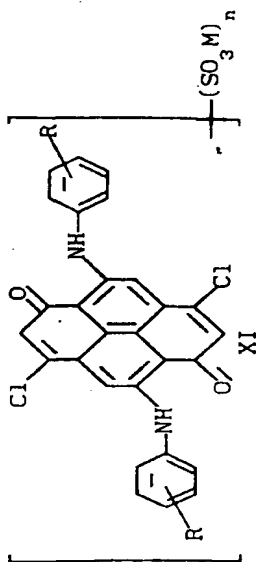


R = H, OH, OCH₃;

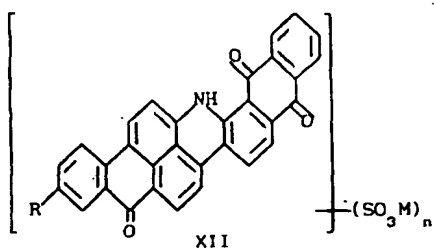
M is a cation, n = 2-4



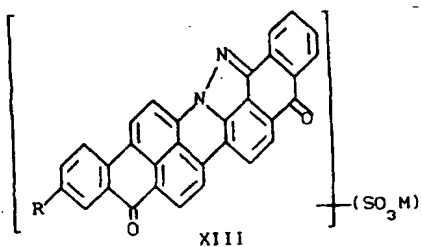
R, M, n are as in formula IX



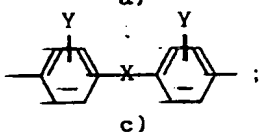
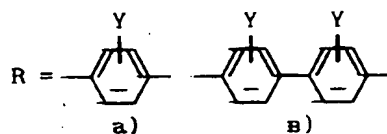
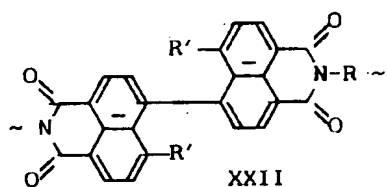
R, M, n are as in formula V



R, M, n are as in formula I;



[For particulars concerning formulas XIII-XXI, please, see pp. 240-241 of the Russian original].

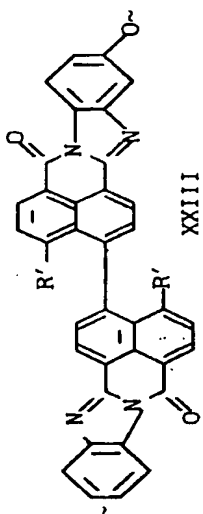


X = O, CH₂, CONH, CH=CH;

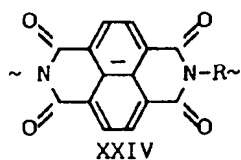
Y = H, CH₃, CH₃O, COOM, SO₃M;

R' = H, NO₂, COOM; SO₃M;

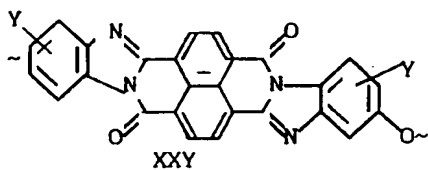
M is a cation;



R' is as in formula XXII;

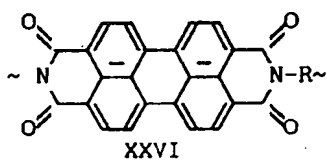


R is as in formula XXII;

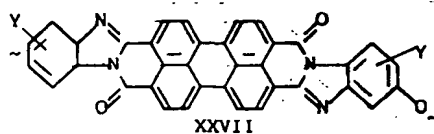


Y = H, SO₃M;

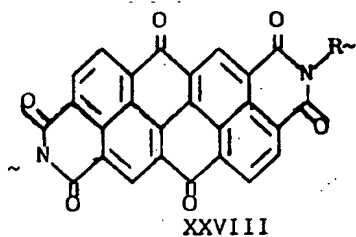
M is a cation;



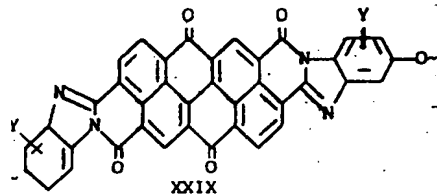
R is as in formula XXII;



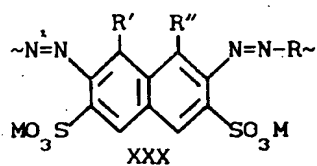
Y is as in formula XXV;



R is as in formula XXII;



Y is as in formula XXV;

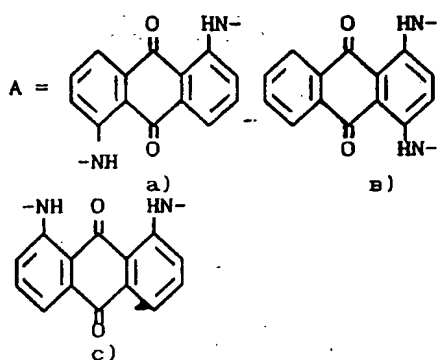


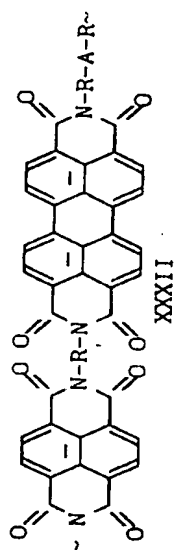
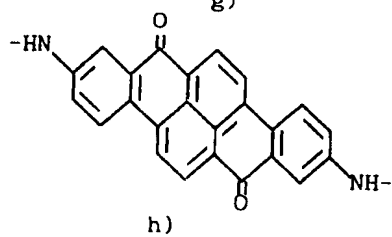
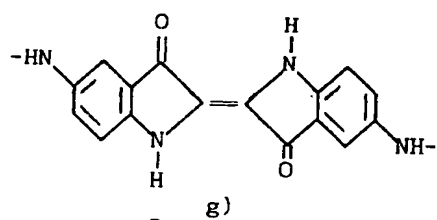
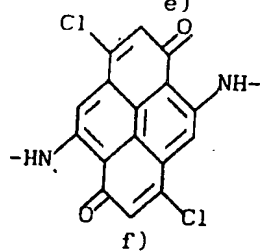
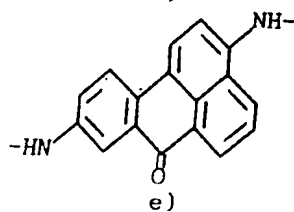
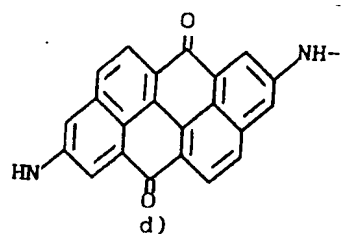
R, M are as in formula XXII;

$\text{R}', \text{R}'' = \text{OH}, \text{NH}_2$

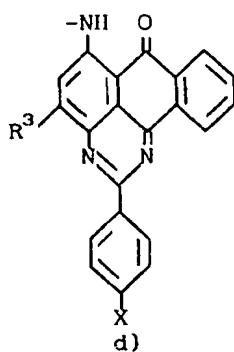
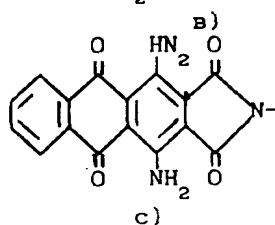
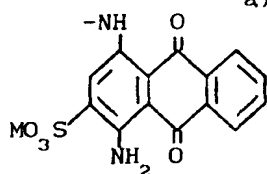
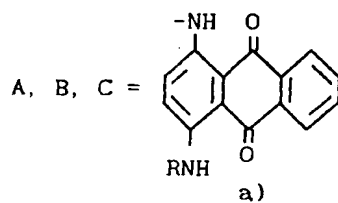
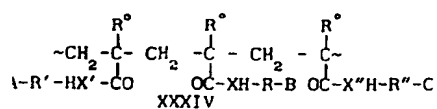
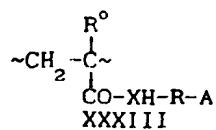


R is as in formula XXII;

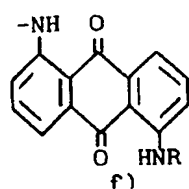
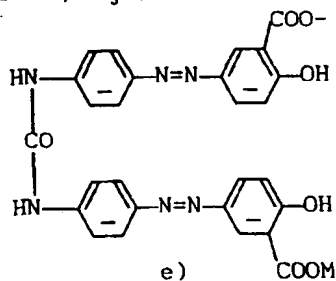




R is as in formula XXII, A is as in formula XXXI



$\text{R}^3 = \text{H}, \text{Br}, \text{SO}_3;$
 $\text{X} = \text{H}, \text{SO}_3\text{M};$



M is a cation

$\text{R}^0 = \text{H}, \text{CH}, \text{CH}_3; \text{X}, \text{X}', \text{X}'' = \dots$

R, R', R" are as in formula XXII, as well as $(CH_2)_n$, $n = 2-4$; and also additionally a modifying additive, with the content of the components being as follows (in % by weight):

film-forming component - an organic dye of formula I-XXXIV or a mixture thereof	3 to 30.0;
antioxidant	0.01 to 1.0;
and/or inhibitors	
and/or a surfactant	0.01 to 10.0;
modifying additive	0.01 to 20.0;
solvent	the balance.

2. A material according to claim 1, *characterized* in that low- and high-molecular organic compounds containing OH, CO,, $CONH_2$, CHO groups are used as the modifying additive.

3. A material according to claim 1, *characterized* in that organosilicon compounds are used as the modifying additive.

4. A material according to claim 1, *characterized* in that liquid-crystal polymers are used as the modifying additive.